

Name:

Date:

Air Pollution Review

1. Put the following examples of air pollution in the right categories

Smog, house dust, acid rain, pollen, ground level ozone, volcanic ash

PRIMARY POLLUTANTS

House dust

Pollen

Volcanic Ash

SECONDARY POLLUTANTS

Smog

Acid Rain

Ground Level Ozone

2. Explain why you put each one in their particular category

Primary pollutants come right from a source.

Secondary Pollutants are a mixture of two or more primary pollutants

3. List 3 examples of **Industrial Air Pollution (Outside)** and 3 examples of **Indoor Air Pollution**

Industrial: *Oil Refineries, Industrial Plants, Dry Cleaners, Furniture Refinishers, Auto body Shops*

Indoor: *Carbon Monoxide, Nitrous Oxide, Chemicals, Bacteria and Fungi, Cleaners, Solvents, Gasoline, Formaldehyde*

4. Acid Precipitation

What is it?

Rain, snow, sleet or hail that contains acid from air pollution

How does it Form?

Sulfur dioxide and nitrogen oxide from burned fossil fuels combine with water in the atmosphere to form sulfuric acid and nitric acid

How does it affect plants?

Acidification of soil- soil acid increases and nutrients get dissolved and washed away

Toxic metals could also be absorbed by the plants roots.

How has it affected forests?

Has damaged large groups of trees in Eastern Europe, Canada and The United States.

How has it affected aquatic ecosystems?

Acid Shock- *Fish and other life are killed because the amount of acid is too high and they cannot adapt. Worse in the spring
Lime is used in some communities to reduce the amount of acid.*

6. Ozone Hole

Location:
Antarctica

Causes:
CFCs (spray cans- paint, hairspray, deodorizers, etc) break down oxygen in the layer and cause a hole

Effects:
More ultraviolet light from the sun is able to get to the surface of the Earth

Reducing It
Some countries have agreed to limit and ban CFCs

7. List 5 short term and 5 long term effects of air pollution on the human body.

SHORT TERM

*Headache, nausea, coughing
Eye, nose, throat irritation
Worsening of asthma,
Emphysema, infections*

LONG TERM

*lung cancer/damage,
heart disease, Emphysema*

8. Cleaning Up Air Pollution

Clean Air Act- *gives the EPA the power to control how many pollutants can be released in the air. They also check air quality*

Scrubbers- *Filters placed on top of smokestacks that can filter out pollutants before they go into the air*

Trade Allowance System-

The EPA establishes limits to how much pollutants a company can release into the air. If a company exceeds that limit they must pay a fine.

Reducing Air Pollution From Vehicles

Manufacturers

*Catalytic converters, cleaner fuel
Hybrid/electric cars*

Everyday People

*Walking, public
transportation
Car pooling,*

